

Post Conference Report
of
**National Conference on Emerging Trends in Computing,
Control and Communication Technology (ETCCCT'20)**

13th March 2020

Organized by



An ISO 9001 Certified Institution
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CONFERENCE REPORT

Overview

A National Conference on Emerging Trends in Computing, Control and Communication Technology (ETCCCT'20) is jointly organized by the department of Computer Science and Engineering, Electrical and Electronics Engineering and Electronics and Communication Engineering of Kings College of Engineering on 13th March, 2020. The Conference acted as a forum to bring together researchers, scientists, academicians, practicing Engineers, and industry professionals to discuss innovative ideas and diverse topics on next generation technologies. This conference has become a common hub for the researchers, to exhibit their new research findings. It seeks solutions for the research/industrial challenges/problems, and makes an avenue to develop networking with hundreds of professionals in the field Electrical, Electronics, communication and Computer Science. The objectives of the conference are:

- To provide a forum for presenting and discussing innovations, ideas, new design and alternative technologies.
- To promote affable environment for academia-industry interaction leading to exchange of new research ideas.
- To present keynote and invited talks by academicians, industrialists and scientists of national repute.

Conference Format

The one-day National Conference comprised parallel paper presentations organized by the three branches. Each speaker was given 10 minutes to present, followed by 5-10 minutes for questions. The conference was structured to foster discussion between participants around the core themes. In addition, invited lecture on Free Space Optical Communication by the Chief Guest followed by a short discussion on the career opportunities for engineering students in abroad as well as in India were also planned.

Conference Themes for Electrical and Electronics Engineering

- Computational Intelligence in Power System, Power Electronics and Renewable Energy sources
- Distributed Generation and Micro/Smart grids
- Electrical Machines and Drives
- Fuel Cells and Green Energy Systems
- HVDC and FACTS
- Intelligent Control, Robotics and Automation Systems
- Measurements and Data Acquisition, Safety and Reliability
- Power Market and Deregulation
- Power System Reliability and Security

The programme was launched at 10.00AM in the Chera hall of Kings College of Engineering, Punalkulam. **Dr. Arun.K.Majumdar**, Adjunct Professor, Colorado State University, USA presided over the function. **Dr.J.Arputha Vijaya Selvi**, Principal, Kings College of Engineering delivered the welcome address to the conference gathering. **Dr.R.Rajendran**, Secretary, Kings College of Engineering has delivered the presidential address. He conveyed the current scenario of Engineering Colleges and students education. He has registered his strong views about the scope of the conference. He expressed that this National conference will be a platform for Researchers, academicians and students to discuss about recent trends, challenges and advancements related to engineering fields, which will create an opportunity to focus on specific areas from their own perspective and experiences in this field. The Chief Guest released the conference proceedings to the gathering and it was received by dignitaries.

Dr.A.Albert Martin Ruban, Organizing Secretary of the Conference introduced the Chief Guest to the crowd. Dr. Majumdar has demonstrated leadership skills in Research and Development for the last 29 years from Industry, University and National Laboratory settings in the areas of atmospheric turbulence effects on free-space laser communications, propagation and imaging. His current research areas are Free-Space Laser Communications and advanced FSO Communications, Image corrections and Communications through atmospheric turbulence. He has published over 60 refereed journal and Conference papers

and technical reports, and serves as reviewer for IEEE, OSA, SPIE, Springer and Elsevier Journals. He was the co-chair of the SPIE's conferences of Free-Space Laser Communications until 2013. He has been invited to provide seminars / Short Courses in various organizations some of which includes SPIE, the Boeing Company, BAE Systems, UCLA, Colorado State University at Pueblo, Colorado, University of California at Riverside, California, University of Dayton, Ohio and Oxford University, UK etc. He owned 3 patents in the areas of optical communications, imaging and Underwater Detection. He has published 4 books which includes Springer, Elsevier and IET publications.

Dr. Arun.K.Majumdar delivered the inaugural address and explained the importance of conference. He explained about the recent trends, growth, future scope, ongoing projects and research in the field of Engineering. In addition, he delivered his keynote address on the basics of Free Space Optical Communication. Also, he educated the students with the advances in Free Space Optical Communication and its applications. The inauguration ends at 11.30 A.M.

Dr. Arun.K.Majumdar had a discussion with the students of all branches on the career opportunities for Engineering students in India and abroad. The students posed questions which were answered by the speaker. The students were inspired by his knowledge sharing which provided them awareness on the abundant opportunities. Technical sessions were arranged separately for the three branches in their respective departments. Paper presentation for Electrical and Electronics Engineering is held at Pallava hall and Machines lab in the main block.

Participants from various Engineering colleges exhibited their views, thoughts and research in the areas of Electrical and Electronics Engineering. Over 50 Technical papers were received from industrialists, UG, PG students and faculty members from various Engineering Institutions. Among them, 45 research papers from various areas such as Power Electronics, Power Systems, Smart grid, Renewable Energy and Wireless Sensor Networks were scrutinized for presentation through review committee. The topics discussed in the conference are quite useful to all the participants to bring new and innovative ideas in the current scenario. **Mr.R.Sundaramoorthi, Mr.J.Arokiaraj, Dr.M.Meenalochani and Mrs.N.Rajeswari** were the jury members for paper presentation.

The valedictory function was arranged at Chera Hall by 04.15PM. **Dr.S.M.Uma**, Programme Chair presented the summary of the conference .Delegates from the various institutions have registered their valuable feedback. The Certificates were distributed to the participants by the Chief Guest. **Prof. N.Mangayarkarasi**, Conference Convener delivered the vote of thanks. On behalf of the management, she expressed the sincere thanks to the Chief guest, the Secretary, the Principal, the Vice principal, Conference chair, teaching and non teaching faculty, event management committee, PG & UG students, delegates from various Engineering colleges for their excellent co operation to make this conference a grand success. Finally, the programme ended with National anthem.

A glimpse of the Conference Events



Dr. Arun K.Majumdar on Dias along with our Secretary, Principal, Vice Principal and HoDs of CSE, ECE and EEE



Dr.J.Arputha Vijaya Selvi, Principal delivering the Welcome address



Lamp Lighting by the dignitaries



Presidential address by Dr.R.Rajendran, Secretary



Chief Guest introduction by Dr.A.Albert Martin Ruban



Proceedings Release



Dr. Arun K.Majumdar, delivering the inaugural address



Invited Talk given by Dr. Arun K.Majumdar in the Field of Free Space Optical Communication



Participants from various institutions



Dr. Arun K.Majumdar discussing with the students on career opportunities



Paper Presentation by the Participants in EEE department at Pallava Hall and Machines lab



Dr.S.M.Uma delivering the Conference report

Vote of thanks by Prof N.Mangayarkarasi



Certificate distribution to the participants by Dr.Arun K.Majumdar